

Recipe Generator

Transforming ingredients into personalized recipes with
nutritional insights using advanced AI technology

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Problem statement

- Traditional recipe systems rely heavily on manual text inputs and lack comprehensive nutritional information, creating barriers to healthy meal planning
- Users must manually type ingredient lists, which is time-consuming and error-prone

Dataset used

Dataset: CORGIS food dataset

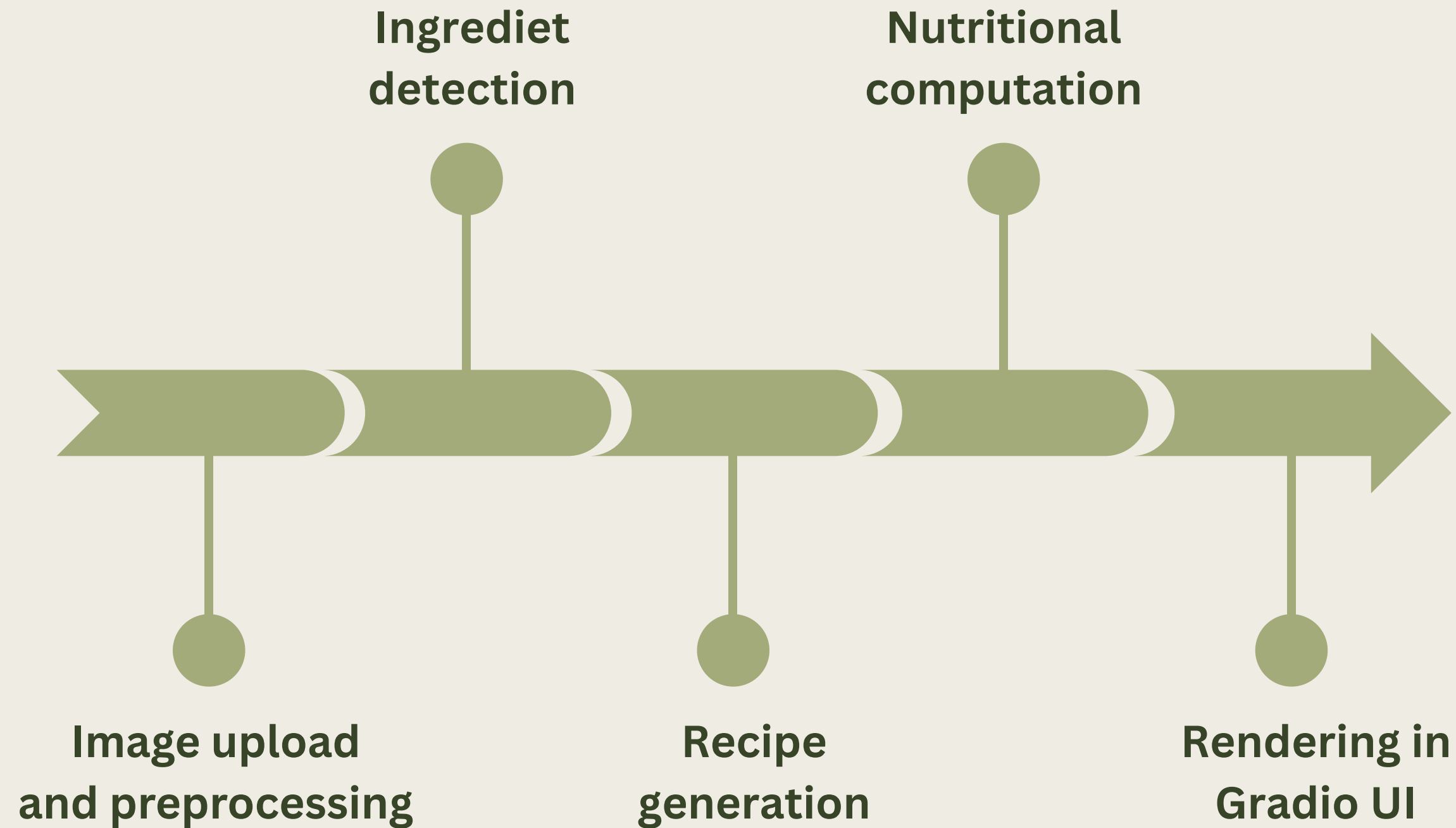
Contains:

- Food descriptions & categories
- Macronutrients (carbs, fats, proteins)
- Vitamins & minerals
- Sodium, fiber, calorie info

Used for:

- Matching ingredients
- Computing nutritional values per recipe

Methodology



Technologies used

GPT-4o-mini

- Ingredient recognition
- Recipe generation

Pandas / JSON / Regex

- Parsing & formatting

Python + Gradio


- Web UI

Demo output

AI Recipe Generator

Transform ingredients into delicious recipes with AI-powered nutrition insights

📷 📁 Upload Ingredient Image



🔗 📌 📄

Detected Ingredients:

kidney beans · seeds · cilantro · raspberries · walnuts · orange · lime · strawberries · broccoli · red lentils · tomato · pineapple · kiwi · spinach · almonds · blackberries

Thank You